Halifax, N.S
Canada

# MIKE HSIN

+886 0903229561
michaelshonhsin@gmail.com

## WORK EXPERIENCE

**Software Developer, Intern**          **Bloomberg London**          **Summer 2023**

- **Design**: Improved integration effectiveness of original tool by 5x through strategic refinement of software requirements based on client feedback.
- **Research & Documentation**: Streamlined development under research constraints, delivered the project one week ahead of schedule; Maintained internal documentation, ensuring 100% project clarity, and aligning with stated goals.
- **Testing Development**: Achieved 98% test coverage and 94%-line coverage in unit and integration testing of APR tool.
- **Quality Assurance**: Led rigorous quality checks under tight deadlines, contributing to 100% adoption of the APR tool among 27 Bloomberg developers.

**Software Engineer, Student**          **IFRC**          **November 2022 - April 2023**

- **Achievement**: Achieved a 33% improvement in tool response time over competitors.
- **Team leadership**: Led efficient project tracking in a team of 6 while collaborating remotely with another team of 6 and three diverse clients, enhancing cross-team collaboration and securing tool adoption by IFRC.

**Virtual Work Placement**          **IBM**          **Summer 2020**

- **Innovation Challenge**: Collaborated in IBM's remote work process to develop a cross-platform mobile application for flood-related challenges, achieving top 10% in work efficiency within 10+ teams.
- **Training**: Enhanced remote work process understanding and team agility, demonstrated through active engagement in daily scrum meetings and delivery of detailed weekly progress reports.

**Software Developer, Intern**          **Nova Scotia Community College**          **Summer 2019**

- **Arduino GPS Tracker:** Engineered an Arduino GPS Tracker project, launching a balloon equipped with the GPS tracker; Achieved the project's first retrieval post-release, demonstrating the team's innovation and technical expertise.
- **Robot renovation**: Renovated an R2D2's head with a Raspberry Pi for Elevated interaction; Converting a medical robot's remote controller from UDP/IP in TCL to TCP/IP in Python.

## EDUCATION

**London, UK**          **University College London**          **December 2023**

- M.S in Software Systems Engineering. Awarded
- Coursework: Software Architecture; Software Systems Integration; Validation and Verification; Software Engineering Research Method; Front End development; Software Engineering.

**Halifax, N.S, Canada**          **Dalhousie University**          **September 2022**

- B.S in Applied Computer Science. GPA: 3.97
- Coursework: Data Structure and Algorithm; Server-Side Scripting; Software Engineering; Network Computing; Web-Centric Computing; Data Mining and data Warehousing; Human Computer Interaction.

**Halifax, N.S, Canada**          **Nova Scotia Community College**          **June 2020**

- Diploma in IT Data Analytics. Grade: 91%
- Coursework: Database; Programing Languages; Software Engineering; Mobile Development; Web Development; Data Privacy; ETL; Linux Scripting; Client-Side Programming; Data Analytics; Back End Development.

## COMPETITION EXPERIENCE AND AWARDS

- **Housing Crisis Hackathon:** Dalhousie University Shiftkey Lab, November 2021. Won the Top Prize.
- **IBEC Data Challenge**: University of New Brunswick, November 2019; Final round.
- **Free Code Camp**: Front End Libraries; JavaScript Algorithms & Data Structures; Data Visualization; Responsive Web Design.
- **Oracle Academy**: Certification of Completing Java Foundation. June 2019.

## SKILLS AND TECHNOLOGIES

- **Programming Languages & Frameworks**: Python; Java; JavaScript; PHP; HTML5; CSS3; React; Gatsby; Node.js; jQuery; R
- **Database**: SQL; MySQL; Oracle Database; SQL Plus; SQL Developer; NoSQL; PL/SQL; Firebase; Data Modeling
- **Software Development Tools**: Git Version Control; GitLab; GitHub; Docker; CI/CD; Unit Testing; Integration Testing
- **Additional skills & tools**: Tableau; SAP Cloud Analytics; Linux; Android Development; ERD; REST API; Google Cloud
- **Project Management**: Agile; Scrum; TDD; Azure Boards; Jira; Trello; Leadership; Requirement Analysis; Risk Management